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Water Supply Outlook For Oregon

SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

OREGON DEPARTMENT OF WATER RESOURCES

AS OF
JAN. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR OREGON

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JANUARY 1, 1979

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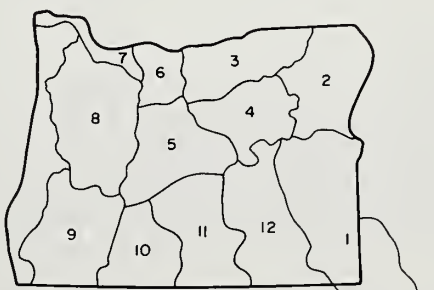
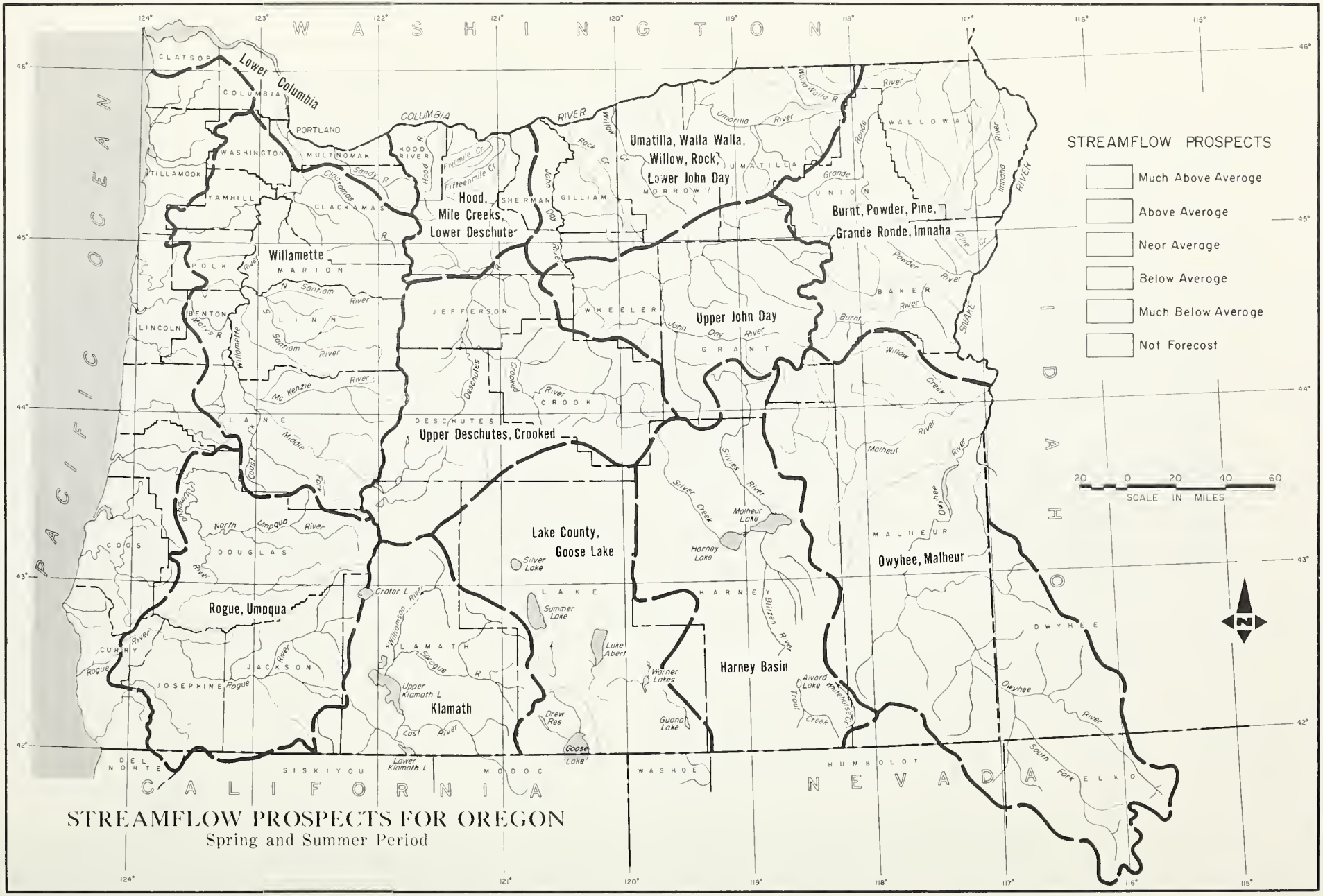


WATERSHED AREA LOCATIONS



STREAMFLOW PROSPECTS FOR OREGON

Spring and Summer Period

WATER SUPPLY OUTLOOK AND SUMMARY FOR OREGON

JANUARY 1, 1979

The early season snowpack is very poor over the western two thirds of the state. Excellent accumulations were measured in the Blue Mountains of Eastern Oregon and a near normal snow cover exists on the Owyhee drainage in Idaho and Nevada. Two thirds of the winter's snowpack is yet to come so there is some chance of recovery from the poor levels recorded. Reservoir storage is near average. Precipitation since November 1 has been below normal over the whole state. This is the third year in a row for below normal snow in the Cascades.

SNOW COVER

The snowpack ranges from 30 to 60% of average in the Cascades with best accumulations at the highest elevations and at the northern end around Mt. Hood. Klamath and Lake Counties have an extremely poor snow cover. The Blue Mountain snow cover is near normal to above normal and the Malheur County snowpack is near average.

PRECIPITATION

Winter precipitation has been 40 to 80% since November 1. Highest percentages were recorded in Northeast Oregon where the best snow cover exists.

SOIL MOISTURE

Soil moisture beneath the mountain snowpack is below average in almost all areas due to a very dry October.

RESERVOIR STORAGE

Reservoir storage is near average at most principal irrigation reservoirs. As of January 1 twenty-three reservoirs were storing 1,530,500 acre feet which is 94% of average.

STREAMFLOW

Streamflow dropped off rapidly in November as a result of an extremely dry October. Most streams are still flowing at below average rates as December precipitation was also below normal. Streamflow during December was 35 to 50% of average except in the Willamette Valley where the Middle Fork of the Willamette produced a volume of 90%.

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators.

WATER SUPPLY OUTLOOK

OWYHEE, MALHEUR WATERSHEDS

OREGON

GENERAL OUTLOOK

Present indications are for no better than average water supply. Snowpack in this area is about average for January 1. However, precipitation in general has been only about half of normal for the November - December period. Owyhee Reservoir has above average storage for this time of year. Other major reservoirs have slightly below average storage. Soil moisture is below average. Streamflow is below average for this period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Bully Creek at Warmsprings					
Malheur near Drewsey					
Malheur, North Fork at Beulah	Note:	Forecasts	begin on Feb.	1, 1979.	
Owyhee Reservoir net Inflow					

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	Forecasts begin in the Feb. 1 report which will be issued about Feb. 8, 1979.		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Beulah Reservoir	60.0	11.0	10.3	19.4
Bully Creek	30.0	8.6	4.9	10.4
Owyhee	715.0	452.3	221.8	372.8
Warmsprings	191.0	67.9	16.1	77.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [c]
Malheur River	1	63	69

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
Jordan Creek	2	90	90
Malheur River	4	96	107
Owyhee River	4	129	101

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

GENERAL OUTLOOK

Water supply in this area is expected to be about average. Snowpack ranges from 91% to 110% of average. November - December precipitation has been about 86% of average. Reporting reservoirs have about normal storage for this time of year. Soil moisture is below normal. The flow of the Grande Ronde is much below normal at present.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Bear near Wallowa					
Burnt near Hereford					
Catherine near Union					
Eagle Creek abv. Skull Creek	Note: Forecasts begin on Feb. 1, 1979.				
Grande Ronde at La Grande					
Hurricane near Joseph					
Imnaha at Imnaha					
Lostine near Lostine					
Powder near Sumpter					
Wallowa, East Fork near Joseph					

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Phillips Lake	73.5	42.9	--	35.7 b
Thief Valley	17.4	Late Rpt.	15.9	15.4 b
Unity	25.2	9.1	9.0	9.3
Wallowa Lake	37.5	29.9	21.5	20.0
Wolf Creek	10.4	5.8	--	--

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Burnt River	3	81	91
Grande Ronde River above La Grande	4	150	110
Powder River	2	120	108
Wallowa, Imnaha, Catherine Creek	--	--	--

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average c
Burnt, Powder	1	84	78
Grande Ronde, Catherine Creek, Imnaha River	2	85	90

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

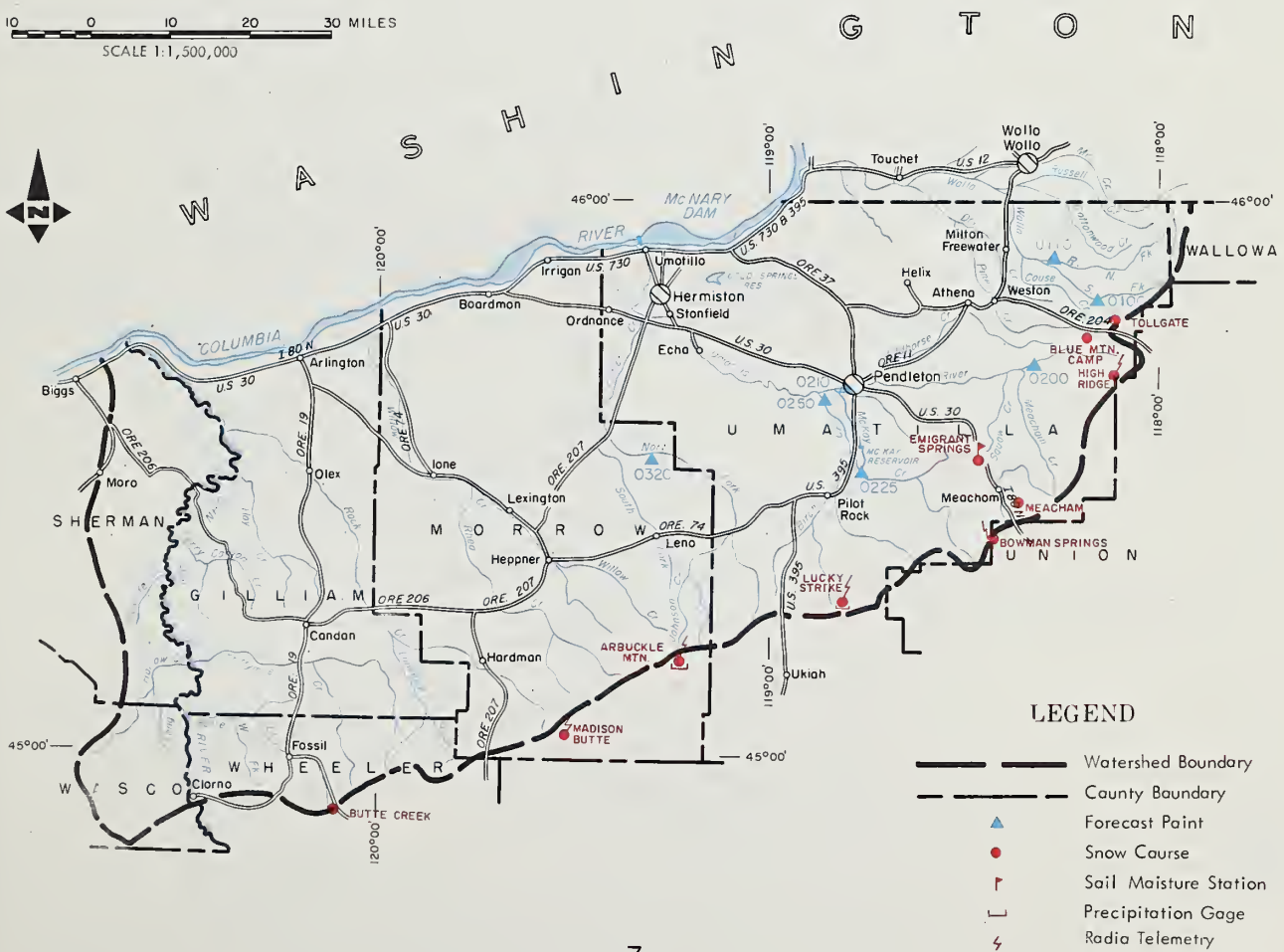
WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

GENERAL OUTLOOK

This area should have adequate water supply. The snowpack is 136% to 157% of normal for January 1. Area precipitation has been 81% of average over the last two months. Reservoir storage is near average for this time of year. Discharge of the Walla Walla River is below average.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Birch Creek at Rieth McKay near Pilot Rock Umatilla near Gibbon Umatilla at Pendleton Walla Walla, South Fork near Milton	Note: Forecasts begin on Feb. 1, 1979.				

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	Forecasts begin in the Feb.1 report which will be issued about Feb. 8, 1979.		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Cold Springs	50.0	15.1	18.6	17.9
McKay	73.8	27.4	15.2	20.9

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [c]
Umatilla, Walla Walla, McKay Creek	3	78	78

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
McKay Creek	2	192	159
Umatilla River	3	176	139
Walla Walla River	2	171	136

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
UPPER JOHN DAY WATERSHEDS
OREGON

GENERAL OUTLOOK

No water shortages are expected as of this date. The snowpack is 110% to 131% of average. Area precipitation has been 80% of normal for the last two months. Soil moisture ranges from average to below average for January 1. John Day River discharge is reported as below average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Camas Creek near Ukiah					
John Day, Middle Fork at Ritter	Note: Forecasts begin on Feb. 1, 1979.				
John Day, North Fork at Monument					
John Day at Prairie City					
Strawberry near Prairie City					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average c
John Day above Dayville	3	73	78
John Day, North Fork	1	98	102

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
John Day, North Fork	4	116	131
John Day abv. Dayville	3	115	110

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

GENERAL OUTLOOK

Water supply outlook for the upper Deschutes basin is not good. The snowpack ranges from 19% of average on the Crooked River drainage to 47% of average above Wickiup Reservoir. Area precipitation for November - December has been about 59% of normal. Reservoir storage ranges from near to below average for January 1. The Deschutes River had average discharge in October and November but dropped to below average in December. Soil moisture is below average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Beaver Creek near Paulina Crane Prairie Reservoir total Inflow Crescent at Crescent Lake Crooked near Post Deschutes at Benham Falls Deschutes below Snow Creek Deschutes, Little near La Pine Ochoco Reservoir net Inflow Odell near Crescent Squaw near Sisters Tumalo near Bend	Note: Forecasts begin on Feb. 1, 1979.				

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow Crooked R. near Post Deschutes at Bend Little Deschutes near La Pine	Forecasts begin in the Feb.1 report which will be issued about Feb. 8, 1979.		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Crane Prairie	55.3	29.1	41.3	41.2
Crescent Lake	86.9	38.2	49.9	51.9
Ochoco	47.5	28.1	8.2	20.6
Prineville	153.0	93.0	66.4	97.8
Wickiup	200.0	134.0	126.6	134.4

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average c
Crooked R., Upper Deschutes River	1	82	88

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Crooked, Ochoco	1	25	19
Deschutes abv. Wickiup	1	57	47
Little Deschutes	2	49	43
Tumalo & Squaw Crs.	2	54	43

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

GENERAL OUTLOOK

This area may experience water shortages unless conditions change. The snowpack is about half of normal. Area precipitation has been about 70% of average over the last two months. Reported reservoir storage is below average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Hood River near Tucker Bridge			Note: Forecasts begin on Feb. 1, 1979.		
Hood, West Fork near Dee					
White below Tygh Valley					

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	Forecasts begin in the Feb.1 report which will be issued about Feb. 8, 1979.		

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Clear Lake (Wasco)	11.9	0.1	2.7	3.9

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
Hood River	3	86	57
Mile Creek	--	--	--
White River	3	86	57

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

LOWER COLUMBIA WATERSHEDS

OREGON

GENERAL OUTLOOK

Columbia River Basin has received below normal precipitation. Discharge for the Columbia River at The Dalles is forecast to be about 78% of normal (NWS forecast).

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average [c]
Sandy River	2	85	60

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [c]
Columbia at The Dalles Sandy River near Marmot	Note:	Forecasts begin on Feb. 1, 1979.			

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW [d] (1,000 A F)			REGULATED PEAK (1,000 cfs)	DATE
	APR — SEPT.	APR — JUNE	MAY — JUNE		
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu)	FLOW AT THE DALLES (1,000 c.f.s)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

WILLAMETTE WATERSHEDS

OREGON

GENERAL OUTLOOK

Water managers should plan their uses carefully. This area has a January 1 snowpack ranging from 29% to 60% of normal. Area precipitation in November - December was about 66% of normal. Middle Fork Willamette River has had only 70% of normal flow for the October - December period. Most major reservoirs report no usable storage as of January 1. Those with storage are far below average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Clackamas at Estacada					
Clackamas above Three Lynx					
McKenzie at McKenzie Bridge					
McKenzie near Vida					
McKenzie, So. Fork near Rainbow					
Oak Grove Fork above Power Intake					
Row near Dorena					
Santiam, North at Mehama					
Santiam, South at Waterloo					
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge					
Willamette, No. Fk. of Mid. Fk. near Oakridge					
Willamette at Salem					

Note: Forecasts begin on Feb. 1, 1979.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
Clackamas River	2	237	46
McKenzie River	3	165	60
Row River	2	73	29
Santiam River	4	146	53
Willamette, Mid. Fk.	3	82	42

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [c]
Blue River	85.6*	0.5	0.2	1.1 [b]
Cottage Grove	30.0*	0	0.2	1.2
Cougar	155.2*	0	9.0	12.0 [b]
Detroit	299.9*	0	51.0	31.6
Dorena	70.5*	0	0.5	4.4
Fall Creek	115.0*	0	0.9	0.0 [b]
Fern Ridge	94.2*	0	3.8	8.2 [b]
Foster	30.0*	0.8	0.2	0.5 [b]
Green Peter	270.0*	12.9	55.9	22.5 [b]
Hills Creek	200.0*	0	49.0	14.5
Lookout Point	337.2*	0	69.5	29.2
Timothy Lake	61.7	30.7	60.3	52.4
Henry Hagg Lake	53.0	27.5	30.5	--

* Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

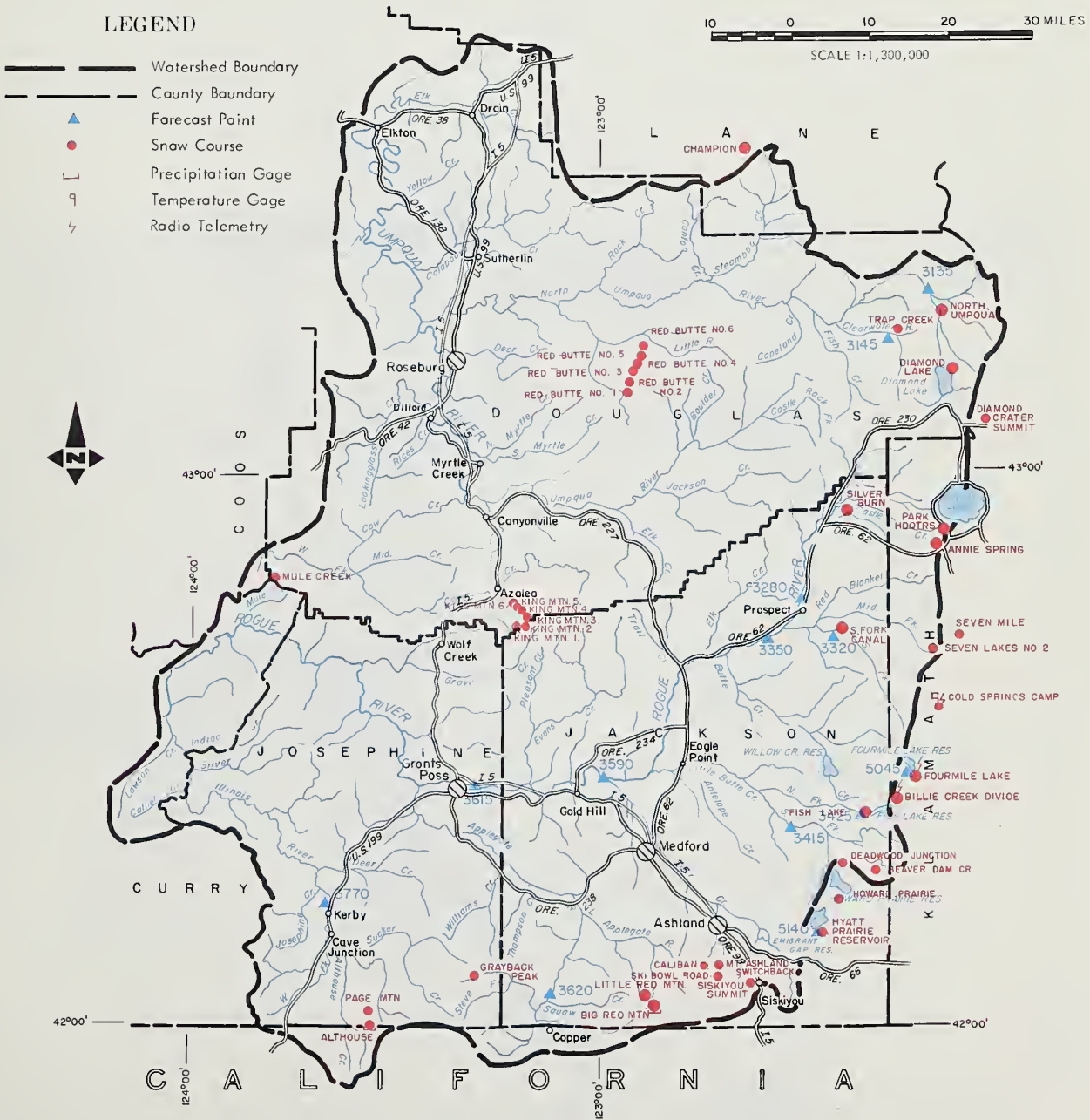
WATER SUPPLY OUTLOOK

ROGUE, UMPQUA, WATERSHEDS

OREGON

GENERAL OUTLOOK

Water supply in this area could be much below average if present trends continue. The area snowpack is 30% to 40% of normal at best. Area precipitation over the last two months has only been 45% of normal. Major reservoirs report near average storage for this time of year. Recorded discharge on the Umpqua River at Elkton has been 37% of normal for the October - December period.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Applegate near Copper					
Clearwater above Trap Creek					
Fourmile Lake net Inflow					
Hyatt Reservoir net Inflow					
Illinois River near Kerby					
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.					
Little Butte, S. Fk. near Lake Creek					
Rogue above Prospect					
Rogue, South Fork near Prospect					
Rogue at Raygold near Central Point					
Rogue at Grants Pass					
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls					

Note: Forecasts begin on Feb. 1, 1979.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	Forecasts begin in the Feb.1 report which will be issued about Feb. 8, 1979.		
Rogue at Raygold			

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Emigrant Lake	39.0	20.1	22.4	18.9
Fish Lake	8.0	4.8	4.1	5.6
Fourmile Lake	16.1	6.0	2.9	9.0 b
Howard Prairie	60.0	33.2	26.3	41.7
Hyatt Prairie	16.1	9.7	8.1	10.9

* Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average c
Applegate	--	--	--
Bear Creek	1	4	3
Butte Creek	4	45	31
Illinois River	--	--	--
North Umpqua	3	64	40
Rogue River	2	41	34

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

KLAMATH WATERSHEDS

OREGON

GENERAL OUTLOOK

The snow cover in Klamath County is very poor. It ranges from 2% on the Sprague up to 30% on the Upper Klamath and Williamson Rivers. Precipitation has been very poor since October 1 and was 42% during October. Soils beneath the snowpack are drier than usual. Reservoir storage is below average at Clear Lake, Gerber and Upper Klamath Lake.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Clear Lake Reservoir Inflow	Note:	Forecasts	begin on Feb. 1, 1979.		
Gerber Reservoir Inflow					
Sprague near Chiloquin					
Upper Klamath Lake net Inflow					
Williamson below Sprague River					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average [c]
Upper Klamath	1	71	67

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Last Year	Average [c]
Clear Lake	440.2	145.1	137.0	203.2
Gerber	94.0	29.9	15.5	46.0
Upper Klamath Lake	584.0	307.2	343.0	350.7

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average [c]
Lost River	1	0	0
Sprague River	2	1	2
Upper Klamath	5	28	29
Williamson River	3	26	28

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

GENERAL OUTLOOK

The snow cover in Lake County is extremely poor. It ranges from 1% of average on Drews Creek up to ½ of normal in the Warner Mountains. Two-thirds of the winter's snow accumulation season is yet to come. Precipitation has been very poor since October 1 and was only 35% of average during December. Soils beneath the snowpack are drier than usual.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average c
Chewaucan near Paisley					
Deep above Adel					
Drews Reservoir net Inflow					
Honey Creek near Plush					
Silver Creek near Silver Lake					
Twentymile near Adel					

Note: Forecasts begin on Feb. 1, 1979.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average c
Chewaucan, Silver Creek, Drew Creek	1	71	67
Honey, Deep, 20-Mi. Cr.	1	79	82

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average c
Cottonwood	8.7	Late Rpt.	N/R	2.1 b
Drews	63.0	Late Rpt.	4.6	34.3
Thompson Valley	19.5	N/R	N/R	9.2 b

* Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

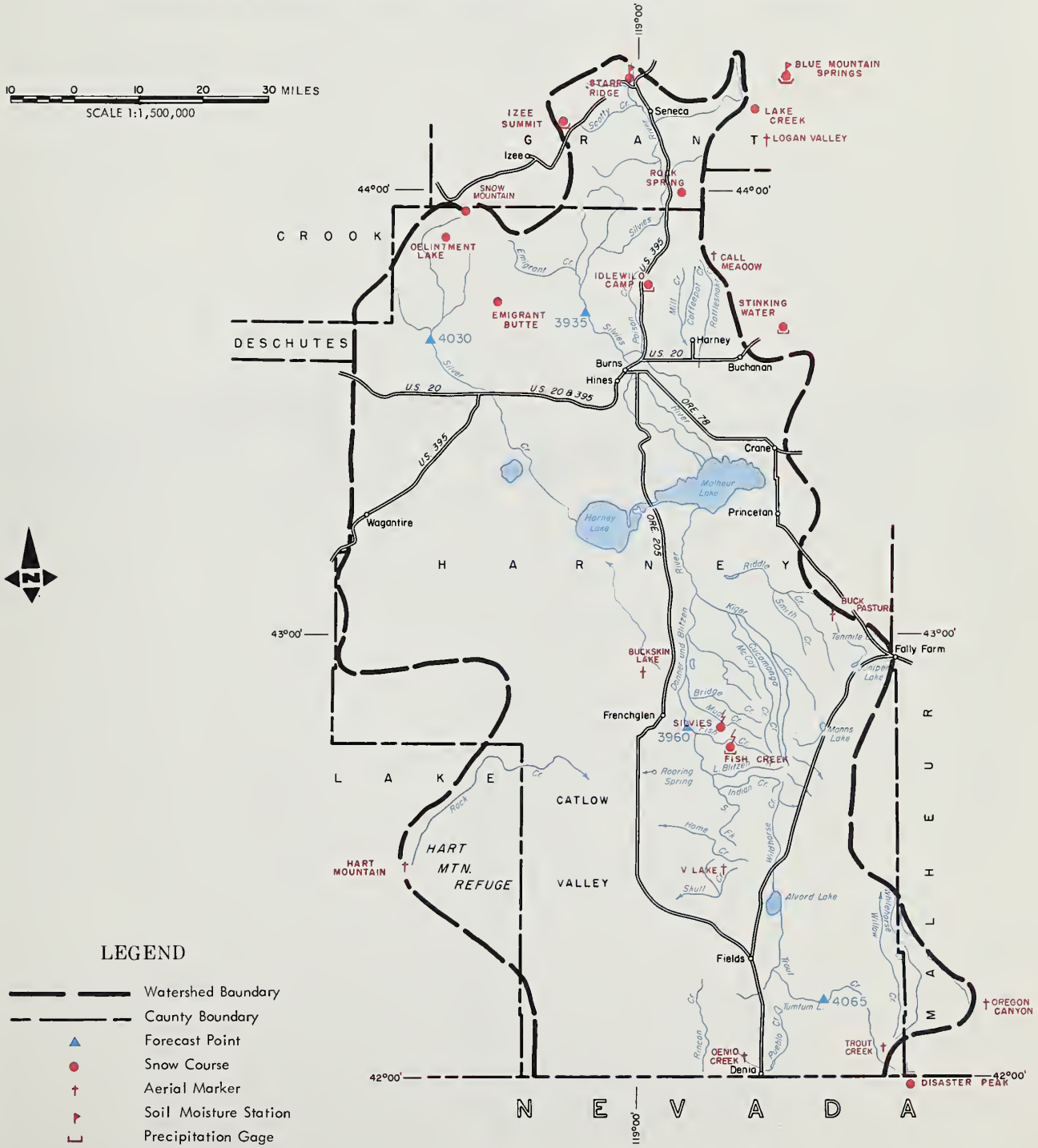
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average c
Chewaucan River	2	11	17
Deep Creek	1	45	50
Drew Creek	1	1	1
Honey Creek	1	45	50
Silver Creek	2	13	21
Twentymile Creek	--	--	--

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

WATER SUPPLY OUTLOOK
HARNEY BASIN WATERSHEDS
OREGON

GENERAL OUTLOOK

The snow cover in Harney County is excellent on the Silvies River and below average in the Steens. Two-thirds of the winter's snow accumulation season is yet to come. Precipitation since October 1 has been below average with December recording 41% of average.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [c]
Donner und Blitzen near Frenchglen					
Silver near Riley			Note: Forecasts begin on Feb. 1, 1979.		
Silvies River near Burns					
Trout Creek near Denio					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [c]
Silvies River, Silver Cr.	2	76	83

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [c]
Donner und Blitzen R.	1	27	40
Silver Creek	--	--	--
Silvies River	4	117	118
Trout Creek	--	--	--

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1979

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)		e			
Battle Creek (Ida.) *		e			
Bear Creek (Nev.)(T)	1/1	--	4.2	10.2	8.2[b]
Big Bend (Nev.)(T)	1/1	--	3.4	--	3.2[b]
Blue Mountain Springs	12/29	25	6.1	7.0	6.5
Blue Mtn. Spgs. Plw.(S)	12/29	23	6.0	--	6.6[b]
Blue Mtn. Spgs. Plw.(M)	12/29	--	6.2	--	5.4[b]
Buck Pasture *		e			
Buckskin, Lower (Nev.)		N/R			
Buckskin, Upper (Nev.)		N/R			
Bull Basin (Ida.) *		e			
Bully Creek *		e			
Call Meadows *		e			
Columbia Basin (Nev.)		N/R		2.2	1.5[b]
Cottonwood-Indian *					
Disaster Peak (Nev.)		N/R			
Eldorado Pass	12/28	8	1.8	1.8	2.0
Fawn Creek (Nev.)		N/R		2.9	1.5[b]
Fish Creek *		e			
Fish Creek		e			
Fish Creek Pillow(S)		e			
Fish Creek Pillow(M)		e			
Flag Prairie *		e			
Fox Creek (Nev.)		N/R			2.8[b]
Fry Canyon (Nev.)	12/28	12	3.0	--	3.2
Gold Creek (Nev.)		N/R			1.9
Granite Peak (Nev.)		e			
Hyde Pasture (Ida.) *		e			
Jack Creek, Lower (Nev.)		N/R			1.1[b]
Jack Creek, Upper (Nev.)*		N/R		2.2	2.5[b]
Jack Peak (Nev.)		N/R			
Lake Creek R.S.	12/28	19	4.7	5.0	4.2
Lake Creek R.S. Plw.(S)	12/28	17	4.5	5.0	--
Lake Creek R.S. Plw.(M)	12/28	--	2.9	--	--
Laurel Draw (Nev.) *		N/R			
Logan Valley *		e			
Lookout Butte *		e			
Louse Canyon *		e			
Martin Creek (Nev.) *		N/R			
Merritt Mountain (Nev.) *		N/R		4.1	--
Midas (Nev.) *		N/R		2.1	--
Mud Flat (Ida.)		e			
Oregon Canyon *		e			
Quinn Ridge (Nev.) *		e			
Red Canyon (Ida.) *		e			
Rock Spring	12/28	12	3.2	2.6	2.1
Rock Spring Plw.(S)	12/28	10	3.0	--	--
Rock Spring Plw.(M)	12/28	--	1.3	--	--
Rodeo Flat (Nev.)	12/28	10	2.7	1.5	2.8
76 Creek (Nev.) * (T)	1/1	--	4.2	6.7	6.4[b]
Silver City (Ida.)	12/31	20	5.2	--	--
Silver City (Ida.) *		e			
Silvies *		e			
Silvies		e			
Silvies Pillow (S)		e			
Silvies Pillow (M)		e			
South Mountain #2 (Ida.)	12/31	18	4.6	5.6	4.9
Stag Mountain (Nev.) *		N/R		2.2	--
Stinking Water	12/28	?	0.6	2.2	1.5
Succor Creek (Ida.) *		e			
Taylor Canyon (Nev.)	12/27	10	2.7	1.7	2.0
Toe Jam (Nev.) *		N/R		2.3	--
Tremewan Ranch (Nev.) *	12/28	3	0.6	0.8	1.0[b]
Trout Creek *		e			
"V" Lake *		e			
Vaught Ranch (Ida.) *		e			
War Eagle (Ida.) *		e			

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1		e			
Aneroid Lake #2		e			
Anthony Lake	12/28	40	8.7	12.1	11.1
Bald Mountain (OR) *		e		--	13.7[b]
Beaver Reservoir (Rev.)	12/26	17	3.5	3.8	5.4[b]
Beaver Res. Pillow(S)	12/26	17	3.0	--	--
Beaver Res. Pillow (M)	--				
Big Sheep *		e			
Blue Mtn. Summit	12/26	14	3.3	3.8	3.5
Bourne		e		--	6.4[b]
Bourne Pillow (S)		e			
Bourne Pillow (M)		e			
County Line	12/29	17	3.0	1.2	2.0
County Line Pillow (S)	12/29	15	2.7	1.3	--
County Line Pillow (M)	--				
Dooley Mountain	12/27	14	2.7	2.2	3.8
Eilertson Meadows	12/27	17	4.5	4.8	4.5
Eilertson Mdws.Plw.(S)	12/27	17	4.3	3.7	--
Eilertson Mdws.Plw.(M)	--				
Eldorado Pass	12/28	8	1.8	1.8	2.0
Gold Center	12/27	21	5.8	6.3	5.0[b]
Gold Center Pillow (S)	12/27	19	5.0	5.5	--
Gold Center Pillow (M)	12/27	--	4.0	--	--
Goodrich Lake		e		--	19.4[b]
Little Alps	12/28	25	6.2	4.1	5.4
Little Antone	12/28	19	3.8	2.7	3.5[b]
Little Antone (Alt.)	12/28	20	3.9	1.9	3.6[b]
Lucky Strike	12/26	23	6.4	3.1	1.6[b]
Lucky Strike Pillow (S)	12/26	21	5.5	4.2	--
Lucky Strike Pillow (M)	12/26	--	6.5	--	--
Meacham	12/26	17	4.9	3.2	3.5
Mirror Lake *		e			
Moss Spring		e		--	8.9[b]
Moss Spring Pillow (S)		e			
Moss Spring Pillow (M)		e			
Mt. Howard		e			
Schneider Meadow		e			
Schneider Meadow Plw.(S)		e			
Schneider Meadow Plw.(M)		e			
Schoolmarm	12/29	14	2.4	1.0	1.6
Standley *		e			
Taylor Green		e			
Taylor Green Pillow(S)		e			
Taylor Green Pillow(M)		e			
Tipton	12/26	15	4.0	5.7	4.7
Tipton Pillow (S)	12/26	19	5.0	7.7	6.6[b]
Tipton Pillow (M)	--			--	4.8[b]
Tollgate	12/26	38	12.6	7.6	9.9
TV Ridge		e			
West Eagle Meadows *		e			
Wolf Creek Pillow(S)		e			
Wolf Creek Pillow(M)		e			

* Aerial
N/R No Report
T = Telemetry Measurement
S = Snow Tube Measurement
M = Manometer Measurement

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1979

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	12/26	19	5.4	3.0	1.5[b]
Arbuckle Mtn. Plw.(S)	12/26	26	7.0	--	--
Arbuckle Mtn. Plw.(M)	12/26	--	5.8	7.9	--
Blue Mountain Camp	12/26	26	9.3	4.7	6.2
Bowman Springs Plw.(S)	12/26	22	5.2	3.0	1.6[b]
Bowman Springs Plw.(M)	12/26	--	6.3	3.8	4.0[b]
Butte Creek Summit	1/3	0	0.0	1.9	1.0[b]
Emigrant Springs	12/26	14	4.7	2.7	2.6
Emigrant Springs Plw.(S)	12/26	15	5.2	--	--
Emigrant Springs Plw.(M)	--				
High Ridge Pillow(S)	12/29	45	13.6	--	12.5[b]
High Ridge Pillow(M)	12/29	--	9.2	8.8	13.7[b]
Lucky Strike	12/26	23	6.4	3.1	1.6[b]
Lucky Strike Pillow(S)	12/26	21	5.5	4.2	--
Lucky Strike Pillow(M)	12/26	--	6.5	--	--
Madison Butte Pillow(S)	12/26	16	4.3	2.0	--
Madison Butte Pillow(M)	12/26	--	4.2	6.0	--
Meacham	12/26	17	4.9	3.2	3.5
Tollgate	12/26	38	12.6	7.6	9.9
UPPER JOHN DAY WATERSHEDS					
Anthony Lake	12/28	40	8.7	12.1	11.1
Arbuckle Mountain	12/26	19	5.4	3.0	1.5[b]
Arbuckle Mountain Plw.(S)	12/26	26	7.0	--	--
Arbuckle Mountain Plw.(M)	12/26	--	5.8	7.9	--
Blue Mountain Springs	12/29	25	6.1	7.0	6.5
Blue Mtn. Spgs. Plw.(S)	12/29	23	6.0	6.0	6.6[b]
Blue Mtn. Spgs. Plw.(M)	12/28	--	6.2	--	5.4[b]
Blue Mountain Summit	12/26	14	3.3	3.8	3.5
Butte Creek Summit	1/3	0	0.0	1.9	1.0[b]
Derr		e			
Derr Pillow (S)		e			
Derr Pillow (M)		e			
Gold Center	12/26	21	5.8	6.3	5.0[b]
Gold Center Plw. (S)	12/26	19	5.0	5.5	--
Gold Center Plw. (M)	12/27	--	4.0	--	--
Indian Creek Butte *		e			
Izee Summit	12/29	16	3.7	2.8	3.2
Lucky Strike	12/26	23	6.4	3.1	1.6[b]
Lucky Strike Plw. (S)	12/26	21	5.5	4.2	--
Lucky Strike Plw. (M)	12/26	--	6.5	--	--
Marks Creek	1/3	8	0.4	1.6	2.1[b]
Ochoco Meadows		e		--	7.6[b]
Ochoco Mdws. Plw. (S)		e			
Ochoco Mdws. Plw. (M)		e			
Olive Lake *				--	7.9[b]
Schoolmarm	12/29	14	2.4	1.0	1.6
Snow Mountain		e		--	6.3[b]
Snow Mountain Plw.(T)		e		3.1	3.4[b]
Snow Mountain Plw.(S)		e			
Snow Mountain Plw.(M)		e			
Starr Ridge	12/29	14	3.7	1.9	2.6[b]
Starr Ridge Plw.(S)	--				
Starr Ridge Plw.(M)	--				
Tipton	12/26	15	4.0	5.7	4.7
Tipton Pillow (S)	12/26	19	5.0	7.7	6.6[b]
Tipton Pillow (M)	--			--	4.8[b]

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
UPPER DESCHUTES, CROOKED WATERSHEDS					
Bald Peter	12/27	22	5.4	10.6	13.1[b]
Caldwell Ranch		e			
Cascade Summit	12/26	15	5.7	8.0	11.1
Cascade Summit Plw.(S)	12/26	21	5.5	--	--
Cascade Summit Plw.(M)	--				
Chemult Alternate	1/4	4	0.6	4.8	3.5[b]
Chemult Alt. Plw.(S)	--				
Chemult Alt. Plw.(M)	--				
Derr		e			
Derr Pillow (S)		e			
Derr Pillow (M)		e			
Hogg Pass	12/28	29	7.9	6.5	14.8
Hogg Pass Pillow (S)	12/28	33	9.2	--	--
Hogg Pass Pillow (M)	12/28	--	7.1	6.6	
Hungry Flat	12/27	5	1.5	1.5	3.3[b]
Irish-Taylor Pillow(T)		e		1.0	19.3[b]
Irish-Taylor Pillow(S)		e			
Irish-Taylor Pillow(M)		e			
Lionshead *	LATE REPORT			--	6.8[b]
Marks Creek	1/3	8	0.4	1.6	2.1[b]
New Crescent Lake		e			
New Crescent Lake Plw.(S)		e			
New Crescent Lake Plw.(M)		e			
New Dutchman Flat #2	12/27	34	10.5	18.3	22.5[b]
Ochoco Meadows		e		--	7.6[b]
Ochoco Meadows Plw.(S)		e			
Ochoco Meadows Plw.(M)		e			
Racing Creek	12/27	14	3.6	2.2	5.4[b]
Snow Mountain		e		--	6.3[b]
Snow Mountain Plw.(T)		e		3.1	3.9[b]
Snow Mountain Plw. (S)		e			
Snow Mountain Plw. (M)		e			
Summit Lake Pillow(T)		e		--	11.3[b]
Summit Lake Pillow(S)		e		--	14.0[b]
Summit Lake Pillow(M)		e			
Tamarack		e			
Tangent	12/27	14	3.3	7.1	9.2
Three Creek Butte		e			
Three Creek Meadow		e			
Three Creek Mdw. Plw.(T)		e			
Three Creek Mdw. Plw.(S)		e			
Three Creek Mdw. Plw.(M)		e			
Waldo Lake		e			
Whitewater Meadow *	LATE REPORT			--	2.4[b]
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadow		e			
Clear Lake	12/20	4	0.8	0.6	3.3
Clear Lake Pillow (S)	12/20	13	2.5	--	--
Clear Lake Pillow (M)	--				
Clear Lake Expt.	12/20	13	2.5	1.8	5.7
Greenpoint		e			
Greenpoint Pillow (S)		e			
Greenpoint Pillow(M)		e			
Mt. Hood Test Site(T)	12/28	--	11.5	19.1	24.3[b]
Mt. Hood Test Site(S)	12/26	44	15.8	--	--
Mt. Hood Test Site(M)	--				
Mud Ridge Pillow(S)	12/19	18	4.5	--	3.9[b]
Mud Ridge Pillow(M)	12/19	--	4.9	2.6	--
Red Hill		e			
Red Hill Pillow(S)		e			
Red Hill Pillow(M)		e			
Still Creek	12/19	14	3.9	2.5	8.5
Switchback		e			
Tilly Jane		e			
Umbrella Falls		e		--	23.7[b]

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1979

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (In.)	THIS YEAR: Water Cont. (In.)	PAST REC.: Water Content (inches): Last Yr.	PAST REC.: Water Content (inches): Ave.[c]
LOWER COLUMBIA WATERSHEDS					
Blazed Alder Pillow(T)		N/R		--	4.9[b]
Blazed Alder Pillow(S)		N/R			
Blazed Alder Pillow(M)		N/R			
Mt. Hood Test Site (T)	12/28	--	11.5	19.1	24.3[b]
Mt. Hood Test Site(S)	12/26	44	15.8	--	--
Mt. Hood Test Site(M)	--				
Mud Ridge Pillow(S)	12/19	18	4.5	--	3.9[b]
Mud Ridge Pillow(M)	12/19	--	4.9	2.6	--
No. Fork Res.(T)	12/31	--	6.0	--	3.0[b]
No. Fork Res.(S)	--			--	3.1[b]
No. Fork Res.(M)	--				
Still Creek	12/19	14	3.9	2.5	8.5
WILLAMETTE WATERSHEDS					
Cascade Summit	12/26	15	5.7	8.0	11.1
Cascade Summit Pillow(S)	12/26	21	5.5	--	--
Cascade Summit Pillow(M)	--				
Champion	12/27	14	4.2	5.9	12.4
Clackamas Lake		e		--	3.7[b]
Clackamas Lake Plw.(S)		e			
Clackamas Lake Plw.(M)		e			
Clear Lake	12/20	4	0.8	0.6	3.3
Clear Lake Pillow(S)	12/20	13	2.5	--	--
Clear Lake Pillow(M)	--				
Clear Lake Expt.	12/20	13	2.5	1.8	5.7
Dead Horse Grade	12/24	15	4.7	1.4	6.0
Detroit (Town)	12/26	0	0.0	0.0	1.1
Detroit Dam	12/26	0	0.0	0.0	0.5
Golden Curry Creek	12/27	0	0.1	0.0	2.2
Hogg Pass	12/28	29	7.9	6.5	14.8
Hogg Pass Pillow(S)	12/28	33	9.2	--	--
Hogg Pass Pillow(M)	12/28	--	7.1	6.6	--
Jump Off Joe Pillow(S)	12/29	8	2.1	--	--
Jump Off Joe Pillow(M)	12/29	--	1.0	--	--
Laurel Mountain	DISCONTINUED			0.0	4.1[b]
Laying Creek	12/27	0	0.0	0.0	--
Lookout Point Dam	12/26	0	0.0	0.0	--
Lost Creek Ranch	1/1	0	0.0	0.0	1.8
Lund Park	12/27	0	0.0	0.0	--
Marion Forks	12/28	10	1.7	1.5	4.5
Marion Forks Pillow(S)	12/28	9	1.5	--	--
Marion Forks Pillow(M)	12/28	--	3.6	0.9	--
Marys Peak		e			
McCredie Springs	12/26	0	0.0	0.0	0.5[b]
McKenzie	12/24	33	10.7	11.9	19.3
McKenzie Pillow(S)	12/24	31	8.7	--	--
McKenzie Pillow(M)	--				
McKenzie Bridge	1/1	0	0.0	0.0	0.6
Mill City	DISCONTINUED			0.0	0.2
Mt. Hood Test Site(T)	12/28	--	11.5	19.1	24.3
Mt. Hood Test Site(S)	12/26	44	15.8	--	--
Mt. Hood Test Site(M)	--				
Oakridge	12/26	0	0.0	0.0	--
Peavine Ridge Pillow(T)	--			1.0	4.9[b]
Peavine Ridge Pillow(S)	12/28	11	3.0	--	--
Railroad Overpass	12/26	0	0.0	0.0	1.3[b]
Railroad Overpass Plw.(S)	12/26	0	0.0	--	--
Railroad Overpass Plw.(M)	12/26	--	0.0	--	--
Saddle Mtn. Pillow(T)	--			--	2.5[b]
Saddle Mtn. Pillow(S)	--			--	9.9[b]
Saddle Mtn. Pillow(M)	12/28	--	0.0	--	--
Salt Creek Falls	12/26	8	1.9	1.3	5.6
Salt Creek Falls Plw.(S)	--				
Salt Creek Falls Plw.(M)	--				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (In.)	THIS YEAR: Water Cont. (In.)	PAST REC.: Water Content (inches): Last Yr.	PAST REC.: Water Content (inches): Ave.[c]
WILLAMETTE WATERSHEDS (CONT.)					
Santiam Junction	12/28	18	5.5	3.1	9.3
Santiam Junction Plw.(S)	12/28	18	5.2	--	--
Santiam Junction Plw.(M)	12/28	--	4.1	3.4	--
Seine Creek Pillow(T)	--			0.1	0.2[b]
Seine Creek Pillow(S)	--				
Seine Creek Pillow(M)	12/29	--	0.0		
Still Creek	12/19	14	3.9	2.5	8.5
Summit Lake Pillow(T)		e		--	11.3[b]
Summit Lake Pillow(S)		e		--	14.0[b]
Summit Lake Pillow(M)		e			
Timothy Lake		N/R		2.8	6.0[b]
Valsetz Summit	DISCONTINUED			0.0	2.3[b]
Vida	1/1	0	0.0	0.0	0.2
Waldo Lake		e			
Weaver Creek	12/27	0	0.1	0.0	0.4[b]
White Branch Slide	12/24	5	1.6	0.1	2.8
Whitewater Bridge	12/28	5	1.2	0.1	2.1[b]
ROGUE, UMPQUA WATERSHEDS					
Althouse		e			
Annie Spring	1/5	15	4.4	16.2	17.6
Beaver Dam Creek	1/2	6	1.3	4.1	6.1
Big Red Mountain		e			
Big Red Mountain Plw.(S)		e			
Big Red Mountain Plw.(M)		e			
Billie Creek Divide	12/27	8	2.9	7.8	8.6
Billie Cr. Div. Pillow(S)	12/27	10	1.0	--	--
Billie Cr. Div. Pillow(M)	12/27	--	3.2	6.4	5.5[b]
Caliban		e			
Caliban (Alternate)		e			
Champion	12/27	14	4.2	5.9	12.4
Cold Springs Camp		e			
Cold Springs Camp Plw.(T)		e		--	16.9[b]
Cold Springs Camp Plw.(S)		e			
Cold Springs Camp Plw.(M)		e			
Deadwood Junction	1/2	5	1.5	2.1	4.3[b]
Diamond-Crater Summit	12/21	15	2.5	12.1	11.7
Diamond Lake	12/21	11	2.7	5.9	7.6
Diamond Lake Pillow(S)	12/21	12	2.3	--	--
Diamond Lake Pillow(M)	--				
Fish Lake	12/27	9	2.1	4.7	5.5[b]
Fish Lake Pillow(S)	12/27	5	2.2	--	--
Fish Lake Pillow(M)	--	e			
Fourmile Lake		e		--	9.3[b]
Fourmile Lake Pillow(S)		e			
Fourmile Lake Pillow(M)		e			
Grayback Peak		e			
Howard Prairie Reservoir	1/2	5	0.7	4.5	4.0
Hyatt Prairie	1/2	4	1.2	0.5[a]	4.0
Hyatt Prairie Pillow(S)	--				
Hyatt Prairie Pillow(M)	1/2	--	1.7	--	--
King Mountain #1	12/28	0	0.0	3.1	5.7[b]
King Mountain #2	12/28	0	0.0	3.6	3.6[b]
King Mountain #3	12/28	0	0.0	0.0	1.9[b]
King Mountain #4	12/28	0	0.0	0.0	0.2[b]
King Mountain #5	12/28	0	0.0	0.0	0.1[b]
King Mountain #6	12/28	0	0.0	0.0	0.1[b]
Little Red Mountain		e			
Mt. Ashland Switchback		e			
Mule Creek	12/27	0	0.0	0.1	4.6[b]
North Umpqua	12/29	8	2.6	3.7	6.4
Page Mountain		e			
Park Headquarters	1/5	25	8.8	20.0	25.2

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1979

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
ROGUE, UMPQUA WATERSHEDS (CONT.)					
Red Butte #1	12/26	5	1.3	1.7	5.2[b]
Red Butte #2	12/26	1	0.5	1.8	3.0
Red Butte #3	12/26	0	0.0	0.0	1.8[b]
Red Butte #4	12/26	0	0.0	0.0	1.1[b]
Red Butte #5	12/26	0	0.0	0.0	1.5[b]
Red Butte #6	12/26	0	0.0	0.0	0.4[b]
Seven Mile		e			
Seven Mile Pillow(S)		e			
Seven Mile Pillow(M)		e			
Silver Burn	LATE REPORT			3.1	6.1
Siskiyou Summit	12/28	0	0.1	2.4	3.7[b]
Ski Bowl Road		e			
South Fork Canal	LATE REPORT			0.5	2.0
Trap Creek	12/28	8	2.0	2.8	5.6
KLAMATH WATERSHEDS					
Annie Spring	1/5	15	4.4	16.2	17.6
Billie Creek Divide	12/27	8	2.9	7.8	8.6
Billie Cr. Div. Plw.(S)	12/27	10	1.0	--	--
Billie Cr. Div. Plw.(M)	12/27	--	3.2	6.4	5.4
Chemult Alternate	1/4	4	0.6	4.8	3.2[b]
Chemult Alternate Plw.(S)	--				
Chemult Alternate Plw.(M)	--				
Chiloquin (PP&L)		N/R		--	0.5[b]
Cold Springs Camp		e			
Cold Spgs. Camp Plw.(T)		e		--	16.9[b]
Cold Spgs. Camp Plw.(S)		e			
Cold Spgs. Camp Plw.(M)		e			
Crazyman Flat *		e			
Crowder Flat (Calif.) *		e			
Crystal (PP&L)	12/28	0	0.1	--	4.1[b]
Diamond-Crater Summit	12/21	15	2.5	12.1	11.7
Dog Hollow *		e			
Finley Corrals *		e			
Fort Klamath (PP&L)	12/28	0	0.0	2.4	1.8[b]
Fourmile Lake		e		--	9.3[b]
Fourmile Lake Pillow(S)		e			
Fourmile Lake Pillow(M)		e			
Gerber	1/2	0	0.0	0.2	1.1
Harriman (PP&L)	12/28	2	0.2	2.4	2.3[b]
Howard Prairie	1/2	5	0.7	4.5	4.0
Hyatt Prairie Reservoir	1/2	4	1.2	0.5	4.0
Hyatt Prairie Res.Plw.(S)	--				
Hyatt Prairie Res.Plw.(M)	1/2	--	1.7		
Kirk (PP&L)	12/28	0	0.1	3.8	3.4[b]
Park Headquarters	1/5	25	8.8	20.0	25.2
Quartz Mountain	12/29	1	0.3	2.6	2.3
Quartz Mtn. Pillow(S)	--				
Quartz Mtn. Pillow(M)	--				
Seven Mile		e			
Seven Mile Pillow(S)		e			
Seven Mile Pillow(M)		e			
State Line (Calif.) *		e			
Strawberry		e		--	3.6[b]
Strawberry Pillow(S)		e			
Strawberry Pillow(M)		e			
Summer Rim *		e			
Summer Rim		e			
Summer Rim Pillow(S)		e			
Summer Rim Pillow(M)		e			
Sycan Flat *		e			
Taylor Butte	12/20	3	0.4	3.8	1.9
Taylor Butte Pillow(S)	12/20	2	0.2	5.0	--
Taylor Butte Pillow(M)	12/20	--	0.0	--	0.8[b]

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[c]
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)		e			
Bald Mountain (Nev.)		e			
Bear Flat Meadow *		e			
Camas Creek #1	12/29	6	1.5	3.8	3.4
Camas Creek #2	12/29	7	1.7	--	--
Cedar Pass (Calif.)(T)	1/1	--	1.7	4.9	--
Colvin Creek *		e			
Cox Flat *		e			
Crowder Flat (Calif.) *		e			
Dismal Swamp (Calif.) *		e			
Finley Corrals *		e			
Hart Mountain *		e			
Little Bally Mtn. (Nev.) *		e			
Mt. Bidwell (Calif.)		e			
North Star (Calif.)		e			
Patton Meadows *		e			
Quartz Mountain	12/29	1	0.3	2.6	2.3
Quartz Mountain Plw.(S)	--				
Quartz Mountain Plw.(M)	--				
Rogger Meadows *		e			
Sherman Valley *		e			
Silver Creek	12/27	1	0.2	0.7	1.0
Silver Creek Pillow(S)	--				
Silver Creek Pillow(M)	--				
State Line (Calif.) *		e			
Strawberry		e		--	3.6[b]
Strawberry Pillow(S)		e			
Strawberry Pillow(M)		e			
Summer Rim *		e			
Summer Rim		e			
Summer Rim Pillow(S)		e			
Summer Rim Pillow(M)		e			
Sycan Flat *		e			
HARNEY BASIN WATERSHEDS					
Blue Mountain Springs	12/29	25	6.1	7.0	6.5
Blue Mtn. Sprgs. Plw.(S)	12/29	23	6.0	6.0	6.6[b]
Blue Mtn. Sprgs. Plw.(M)	12/28	--	6.2	--	5.4[b]
Buck Pasture *		e			
Buckskin Lake *		e			
Call Meadows *		e			
Delintment Lake		e			
Denio Creek *		e			
Disaster Peak (Nev.)		N/R			
Emigrant Butte		e			
Fish Creek *		e			
Fish Creek		e			
Fish Creek Pillow(S)		e			
Fish Creek Pillow(M)		e			
Hart Mountain *		e			
Idlewild Camp Alternate	1/2	8	1.6	1.8	2.4[b]
Izee Summit	12/29	16	3.7	2.8	3.2
Lake Creek R.S.	12/28	19	4.7	5.0	4.2
Lake Creek R.S. Plw.(S)	12/28	17	4.5	5.0	--
Lake Creek R.S. Plw.(M)	12/28	--	2.9	--	--
Oregon Canyon *		e			
Rock Spring	12/28	12	3.2	2.6	2.1
Rock Spring Pillow(S)	12/28	10	3.0	--	--
Rock Spring Pillow(M)	12/28	--	1.3	--	--
Silvies *		e			
Silvies		e			
Silvies Pillow (S)		e			
Silvies Pillow (M)		e			
Snow Mountain		e		--	6.3[b]
Snow Mountain Plw.(T)		e		--	3.9[b]
Snow Mountain Plw.(S)		e			
Snow Mountain Plw.(M)		e			
Starr Ridge	12/29	14	3.7	1.9	2.6[b]
Starr Ridge Pillow (S)	--				
Starr Ridge Pillow (M)	--				
Stinking Water	12/28	2	0.6	2.2	1.9
Trout Creek *		e			
"V" Lake *		e			

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1979

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	Discontinued		--	--
Big Bend (Nev.)	6700	48	16.7	Discontinued		--	--
Blue Mountain Spring	5900	42	16.9	12/28/78	5.73	9.8	--
Mud Flat (Ida.)	5500	48	12.8	Discontinued		--	--
Rodeo Flat (Nev.)	6800	42	11.0	Discontinued		4.0	--
Taylor Canyon (Nev.)	6200	48	15.1	Discontinued		9.4	--
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	12/27/78	9.27	--	8.7
Dooley Mountain	5430	36	9.2	12/27/78	2.80	3.3	4.0
Emigrant Springs	3925	48	22.3	12/28/78	16.04	19.3	--
Ladd Summit	3730	48	18.9	12/21/78	9.61	10.8	10.0
Moss Springs	5850	36	25.8	e	--	--	--
Tollgate	5070	48	23.6	12/26/78	9.05	16.3	--
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/28/78	12.23	12.4	11.7
Emigrant Springs	3925	48	22.3	12/28/78	16.04	19.3	--
Tollgate	5070	48	23.6	12/26/78	9.05	16.3	--
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/28/78	12.23	12.4	11.7
Blue Mountain Spring	5900	42	16.9	12/28/78	5.73	9.0	--
Blue Mountain Summit	5100	36	16.8	12/27/78	9.27	--	8.7
Derr	5670	24	9.0	e	--	--	--
Marks Creek	4540	36	14.1	1/2/79	9.24	11.2	--
Snow Mountain	6300	48	16.7	e	--	--	--
Starr Ridge	5150	36	10.6	12/29/78	7.59	10.5	--
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	e	--	--	--
Marks Creek	4540	36	14.1	1/2/79	9.24	11.2	--
Snow Mountain	6300	48	16.7	e	--	--	--
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	12/29/78	5.42	7.6	8.6
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	12/29/78	9.75	12.4	11.9
Quartz Mountain	5230	48	15.3	12/29/78	5.42	7.6	8.6
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	12/28/78	5.73	9.0	--
Silvies	6900	48	16.4	e	--	--	--
Snow Mountain	6300	48	16.7	e	--	--	--
Starr Ridge	5150	36	10.6	12/29/78	7.59	10.5	--
Willow-Bald	5000	24	6.6	1/2/79	4.26	5.1	--

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

BASIC DATA SUPPLEMENT 3

JANUARY 1, 1979

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precip-itation	Last Year	Average [c]
Arbuckle Mountain (Morrow County)	5400	From 8/21 to 12/26	12.50"		
Beaver Reservoir (Union)	5150	From 8/16- to 12/27	7.50"		
Billie Creek Divide (Jackson County)	5310	From 10/20 to 12/27	14.80"		
Blue Mt. Springs (Grant County)	5900	From 6/22 to 12/28	8.50"		
Bowman Springs (Umatilla)	4580	From 10/27 to 12/26	8.25"		
Camas Creek (Lake County)	5825	From 12/5 to 12/29	1.25"		
Cascade Summit (Lane)	4880	From 10/27 to 12/26	17.00"		
Clear Lake (Wasco)	3800	From 10/20 to 12/20	8.40"		
Diamond Lake (Douglas)	5315	From 10/25 to 12/21	9.80"		
Eilertson Meadow (Baker County)	5400	From 10/27 to 12/27	6.10"		
Fish Lake (Jackson County)	5865	From 11/2 to 12/27	8.52"		
Gold Center (Baker)	5340	From 10/30 to 12/27	6.40"		
High Ridge (Umatilla)	4980	From 8/23 to 12/29	16.30"		
Hogg Pass (Jefferson)	4755	From 10/31 to 12/28	18.60"		
Hyatt Prairie (Jackson)	4900	From 12/1 to 1/2	3.50"		
Lake Creek(Grant)	5120	From 6/21 to 12/28	8.26"		
Lucky Strike (Umatilla County)	5050	From 10/27 to 12/26	6.70"		
Madison Butte (Morrow)	5250	From 10/31 to 12/26	5.50"		
Marion Forks (Linn)	2730	From 10/31 to 12/28	16.30"		
McKenzie (Lane)	4800	From 11/1 to 12/24	22.50"		
Mud Ridge (Clackamas)	3800	From 10/30 to 12/19	14.20"		
Peavine (Clackamas)	3500	From 10/26 to 12/28	15.80"		
Quartz Mt. (Lake County)	6300	From 11/27 to 12/29	1.90"		

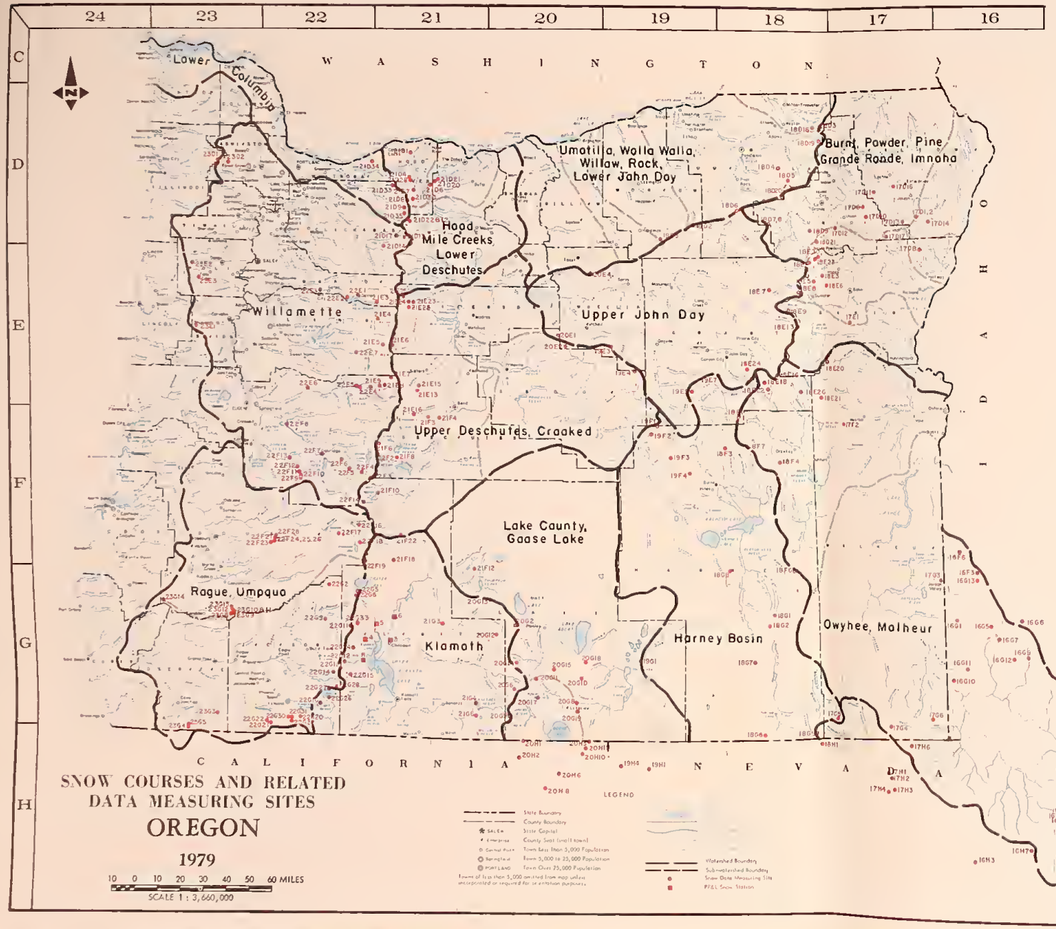
BASIC DATA SUPPLEMENT 3

JANUARY 1, 1979

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precip-itation	Last Year	Average [c]
Railroad Overpass (Lane)	2750	From 10/27 to 12/26	14.30"		
Rock Springs (Grant)	5100	From 6/27 to 12/28	6.82		
Rodeo Flat (Nev.)		From 9/15 to 12/28	3.70"		
Santiam Jct. (Lane)	3750	From 10/31 to 12/28	16.10"		
Starr Ridge (Grant)	5156	From 6/23 to 1/3	7.80"		
Taylor Butte (Klamath County)	5040	From 10/19 to 12/20	1.10"		
Taylor Canyon (Nev.)		From 9/15 to 12/27	2.70"		
Tipton (Baker County)	5100	From 7/26 to 12/27	5.60"		

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

USDA-SCS-PORTLAND, OR.-1978

OWYHEE, MALHEUR WATERSHEDS

Owyhee River

NUMBER	NAME		LOCATION SEC	TWP	RGE	ELEV
16I6	Antelope Ridge	(Ida)	20	8S	1E	5900
16I6a	Battle Creek	(Ida)	10	11S	1E	5700
15H4M	Bear Creek	(Nev)	31	46N	58E	7800
15H4N	Big Sand	(Nev)	30	45N	56E	6700
15H4P	Buckskin, Lower	(Nev)	25	45N	59E	6700
15I5C	Buckskin, Upper	(Nev)	11	45N	59E	7200
15I7	Bull Basin	(Ida)	29	12S	5W	5600
16G10a	Collordia Basin	(Nev)	31	44N	63E	6650
15H6B	Disaster Peak	(Nev)	9	47N	54E	6500
16H1	Fawn Creek	(Nev)	2	45N	52E	7000
16H5a	Fish Creek		4	33S	33E	7900
16G24 *	Fox Creek	(Nev	33	46N	58E	6800
15I5C	Fry Canyon	(Nev)	31	43N	54E	6700
15H7	Gold Creek	(Nev)	31	45N	56E	6600
15H5	Granite Peak	(Nev)	22	44N	59E	7800
17H4	Hyde Pasture	(Ida)	31	8S	2W	5800
16I5a	Jack Creek, Lower	(Nev)	18	42N	53E	6800
16I5M	Jack Creek, Upper	(Nev)	9	42N	53E	7250
16H2	Jack Peak	(Nev)	28	42N	53E	8420
17G3M	Jordan Valley		2	30S	46E	4390
15H5	Laurel Draw	(Nev)	20	45N	53E	6700
17G6a	Lookout Butte		2	40S	47E	5650
17G4a	Louse Canyon		27	40S	44E	6440
17H3	Martin Creek	(Nev)	18	44N	40E	6700
15H20a	Merritt Mountain	(Nev)	10	46N	54E	7000
16H3AP	Midas	(Nev)	18	39N	46E	7200
16G7MP	Mud Flat	(Ida)	34	9S	2W	5500
17G5a	Oregon Canyon		8	40S	40E	6950
17H6a	Quinn Ridge	(Nev)	9	47N	41E	6300
16G11a	Red Canyon	(Ida)	32	11S	4W	6650
15H6MP	Rodeo Flat	(Nev)	36	43N	53E	6800
15H3A	76 Creek	(Nev)	6	44N	58E	7100
16F3AP*	Silver City	(Ida)	6	5S	3W	6400
18G1PA *	Silvies		35	32S	33E	6900
16G1P	South Mountain No. 2	(Ida)	10	8S	5W	6340
15H19a	Stag Mountain	(Nev)	32	41N	58E	7600
16F6a	Succor Creek	(Ida)	25	3S	5W	6100
15H3MP	Taylor Canyon	(Nev)	35	39N	53E	6200
16H7a	Toe Jam	(Nev)	29	40N	50E	7700
15N8	Trenewan Ranch	(Nev)	9	39N	55E	5700
18G5a	Trout Creek		10	41S	38E	7600
18G7a	"Y" Lake		31	35 S	32 E	6600
16G12a	Vaught Ranch	(Ida)	10	11S	1W	5950
16G13a	War Eagle	(Ida)	20	5S	3W	7700

Malheur River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18E16MP *	Blue Mountain Springs	21	15S	35E	5900
18F5a	Buck Pasture	28	29S	35E	5300
18E21a	Bully Creek	11	17S	37E	5300
18F7a	Call Meadows	29	20S	33E	5340
17F2a	Cottonwood-Indian	3	19S	39E	4320
18E20	Eldorado Pass	20	14S	38E	4600
18E26a	Flag Prairie	32	16S	36E	4750
18E18 *	Lake Creek	10	16S	33 E	5200
18E22a	Logan Valley	13	16S	33 E	5100
18F1	Rock Spring	23	18S	32E	5100
18F4P	Stinking Water	34	21S	34E	4800

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (2)

Burnt River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18E13M	Blue Mountain Summit	6	12S	36E	5058
17E14P	Cooley Mountain	32	11S	40E	5430
18E20	Eldorado Pass	20	14S	38E	4600
18E8	Gold Center	21	9S	36E	5340
18E3P *	Tipton	34	10S	35E	5100

Powder River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18E1P	Anthony Lake	18	7S	37E	7125
18E5 *	Bourne	33	8S	37E	5800
17E1MP	Cooley Mountain	32	11S	40E	5430
18E3	Eilertson Meadows	18	8S	38E	5400
18E8	Gold Center	21	9S	36E	5340
18E6A	Goodrich Lake	4	9S	38E	6775
17012m	Ladd Summit	5	5S	39E	3730
18E23	Little Alps	10	7S	37E	6200
18E30	Little Antone	1	7S	37E	5000
1707P	Taylor Green	3	6S	42E	5740
17017	West Eagle Meadows	32	5S	43E	5500
18021 *	Wolf Creek	2	6S	37E	5700

Pine Creek

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1708	Schneider Meadows	35	6S	45E	5400

Grande Ronde River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1701	Aneroid Lake No. 1	16	4S	45E	7480
1702P	Aneroid Lake No. 2	16	4S	45E	7300
18E1P	Anthony Lake	18	7S	37E	7125
17010a	Bald Mountain	14 & 15	4S	41E	6700
1809	Beaver Reservoir	8	5S	37E	5150
1808P	County Line	28	4S	34E	4800
1806P *	Lucky Strike	28	3S	32E	5050
1805	Meacham	24	1S	35E	4300
17013a	Mirror Lake	34	4S	44E	8200
1706H	Moss Spring	28	3S	41E	5850
1807	Schoolmarm	28	4S	34E	4775
17011a	Standley	21	2S	42E	7400
1707P	Taylor Green	3	6S	42E	5740
1803	Tollgate	32	4N	38E	5070
17016a	TV Ridge No. 2	12	2S	43E	7000

Imnaha River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1701	Aneroid Lake No. 1	16	4S	45E	7480
1702P	Aneroid Lake No. 2	16	4S	45E	7300
17014a	Big Sheep	33	4S	46E	6200

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS (3)

Rock Creek

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1903	Madison Butte	30	5S	27E	5250

Umatilla River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1902P *	Arbuckle Mountain	33	4S	29E	5400
18020 *	Bowman Springs	29	2S	35E	4580
20E4	Butte Creek Summit	5	8S	22E	3930
1804M	Emigrant Springs	29	1N	35E	3925
18019 *	High Ridge	31	3N	38E	4150
1806P *	Lucky Strike	28	3S	32E	5050
1805	Meacham	24	1S	35E	4300
1803	Tollgate	32	4N	38E	5070

Walla Walla River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18016	Blue Mountain Camp	35	4N	37E	4300
1803	Tollgate	32	4N	38E	5070

LEGEND

1902	SNOW COURSE ONLY
1902M	SNOW COURSE AND SOIL MOISTURE
1902MA	SNOW COURSE SOIL MOISTURE AND AERIAL MARKER
1902A	SNOW COURSE AND AERIAL MARKER
1902m	SOIL MOISTURE ONLY
1902a	AERIAL MARKER ONLY
1902P	SNOW COURSE AND PRECIPITATION GAGE
1902s	PRECIPITATION GAGE ONLY
1902*	RADIO TELEMETRY

Willow Creek

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1902P *	Arbuckle Mountain	33	4S	29E	5400
18E1P	Anthony Lake	18	7S	37E	7125

UPPER JOHN DAY WATERSHEDS (4)

Upper John Day River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
1902P *	Arbuckle Mountain	33	4S	29E	5400
18E16MP *	Blue Mountain Springs	21	15S	35E	5900
18E13M	Blue Mountain Summit	6	12S	36E	5098
20E4	Butte Creek Summit	5	8S	22E	3930
19E3MP	Derr	14	13S	23E	5670
18E8	Gold Center	21	9S	36E	5340
18E24a	Indian Cr. Butte	5	15S	33E	6550
19E9P	Izee Summit	28	16S	29E	5293
1806P *	Lucky Strike	28	3S	32E	5050
20E1MP	Marks Creek	25	12S	19E	4540
20E2	Ochoco Meadows	21	13S	20E	5200
18E7a	Olive Lake	14	9S	34E	6000
1807	Schoolmarm	28	4S	34E	4775
19F1 *	Snow Mountain	1	19S	26E	6220
19E7M	Starr Ridge	20	15S	31E	5150
18E9P *	Tipton	34	10S	35 E	5100

UPPER DESCHUTES, CROOKED WATERSHEDS (5)

Upper Deschutes River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21E22	Bald Peter	29	10S	9E	5400
21F8	Caldwell Ranch	30	21S	8E	4400
22F3	Cascade Summit	7	23S	6E	4880
21F22	Chemult Alt.	21	27S	8E	4760
21E6 *	Hogg Pass	24	13S	7 E	4755
21F4	Hungry Flat	29	18S	11E	4400
21F6*	Irish-Taylor	25	20S	6E	5500
21E25a	Lionshead	1	10S	8E	5400
21F10	New Crescent Lake	11	24S	6E	4800
21E16	New Dutchman Flat #2	21	18S	9E	6400
21E23	Racing Creek	15	10S	9E	4800
22F14 *	Summit Lake	33	24S	5 E	5600
21F3	Tangent	26	18S	10E	5400
21E15	Three Creeks Butte	27	16S	9E	5200
21E13*	Three Creeks Meadows	34	16S	9E	5650
22F2P	Waldo Lake	15	21S	6E	5600
21E24a	Whitewater Meadow	17	10S	9E	4160

Crooked River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
19E3MP	Derr	14	13S	23E	5670
20E1MP	Marks Creek	25	12S	19E	4540
20E2	Ochoco Meadows	21	13S	20E	5200
19F1 *	Snow Mountain	1	19S	26E	6220
19E4	Tamarack	8	15S	25E	4800

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (6)

Hood River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
2106P	Brooks Meadows	2	2S	10E	4300
2101 *	Greenpoint Reservoir	27	2N	9E	3200
21020	Knebal Springs	31	1S	11E	3850
2108*	Mt. Hood Test Site	7	3S	9E	5400
2104 *	Red Hill	20	1 S	9E	4400
2109	Still Creek	25	3S	8 E	3670
21028	Switchback	28	1S	9E	3255
2107P	Tilly Jane	15	2S	9E	6000
21021	Ulrich Ranch Junction	28	1S	11E	3350
21030	Umbrella Falls	3	3S	9E	5400

Mile Creeks - Masier Creek

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
2106P	Brooks Meadows	2	2S	10E	4300
21020	Knebal Springs	31	1S	11E	3850
21021	Ulrich Ranch Junction	28	1S	11E	3350

Lower Deschutes River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21012	Clear Lake	29	4S	9E	3500
21022	Clear Lake Experimental	29	4S	9E	3500

LOWER COLUMBIA WATERSHEDS (7)

Bull Run River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21033*	Blazed Alder	5	2S	8E	3650

Sandy River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21035 *	Mud Ridge	1	4S	8 E	3800
21034 *	North Fork Reservoir	24	1N	6E	3120
2108*	Mt. Hood Test Site	7	3S	9E	5400
2109	Still Creek	25	3S	8 E	3670

WILLAMETTE WATERSHEDS (8)

Clackamas River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21013	Clackamas Lake	35	5S	8 E	3400
21012	Clear Lake	29	4S	9E	3500
21022	Clear Lake Exp.	29	4S	9E	3800
21014P*	Peavine Ridge	14 & 15	6S	7E	3500
21017	Timothy Lake	26	5S	8E	3295

Santiam River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
22E1	Detroit (City)	1	10S	5E	1610
22E2	Detroit Dam	7	10S	5E	1580
21E6 *	Hogg Pass	24	13S	7 E	4755
22E7 *	Jump-Off-Joe	1	14S	5E	3400
21E4	Marion Forks	29	11S	7E	2600
22E3	Mill City	29	9S	3E	826
21E5*	Santiam Junction	14	13S	7E	3750
21E3	Whitewater Bridge	20	10S	7E	2175

McKenzie River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21E8	Dead Horse Grade	13	16S	7E	3700
22E4	Lost Creek Ranch	19	16S	7E	1956
21E7	McKenzie	34	15S	7 E	4800
22E5	McKenzie Bridge	13	16S	5E	1372
22E6	Vida	28	16S	2E	800
21E9	White Branch Slide	15	16S	7E	2700

Middle Fork Willamette River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
22F3	Cascade Summit	7	23S	6E	4880
22F8	Lookout Point Dam	13	19S	1W	750
22F6	McCredie Springs	36	21S	4E	2120
22F7	Oakridge	16	21S	3E	1310
22F5	Railroad Overpass	21	22S	5E	2750
22F4	Salt Creek Falls	32	22S	5 E	4000
22F14 *	Summit Lake	33	24S	5 E	5600
22F2P	Waldo Lake	15	24S	6E	5600

Coast Fork Willamette River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
22F9	Champion	12	23S	1E	4500
22F10	Golden Curry Creek	1	23S	1E	3136
22F13	Layng Creek R.S.	31	21S	1E	1200
22F12	Lund Park	22	22S	1E	1740
22F11	Weaver Creek	35	22S	1E	2440

Mary's River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
23E1	Mary's Peak	21	12S	7W	3620

Luckiomute River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
23E2	Laurel Mountain	6	8S	7W	3000
23E3	Valsetz Summit	3	9S	7W	2600

Tualatin River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
2302*	Seine Creek	34	1N	5W	2000
2301*	Saddle Mountain	25	1N	6W	3250

ROGUE, UMPQUA WATERSHEDS (9)

Rogue River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
23G4P	Althouse	17	41S	7W	4530
22G6	Annie Spring	19	31S	6E	6018
22G28	Beaver Dam Creek	1	38S	4E	5100
22G21P	Big Red Mountain	31	40S	1W	6250
22G13P *	Billie Creek Divide	30	36S	5E	5300
22G30	Caliban	16	40S	1E	6500
22G27	Deadwood Junction	8	38S	4E	4600
22F19	Diamond-Crater Summit	3	29S	6E	5800
22G14P	Fish Lake	3	37S	4E	4665
22G12 *	Fourmile Lake	9	36S	5E	6000
23G3	Grayback Peak	9	40S	5W	6000
22G26	Howard Prairie	32	38S	4E	4500
22G16	Hyatt Prairie Reservoir	15	39S	3E	4900
22G22	Little Red Mountain	25	40S	2W	6500
22G31	Mt. Ashland Switchback	15	40S	1E	6400
23G14	Mule Creek	8	32S	9W	3680
23G5	Page Mountain	5	41S	7W	4045
22G5	Park Headquarters	8	31S	6E	6550
22G11	Seven Lakes No. 2	26	33S	5E	6200
22G2	Silver Burn	30	30S	4E	3720
22G20	Siskiyou Summit	17	40S	2E	4630
22G32	Ski Bowl Road	22	40S	1E	6000
22G9	South Fork Canal	12	33S	3E	3500

Umpqua River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
22F9	Champion	12	23S	1E	4500
22F18P	Diamond Lake	29	27S	6E	5315
23G8	King Mountain No. 1	5	33S	4W	4500
23G9	King Mountain No. 2	4	33S	4W	4000
23G10	King Mountain No. 3	33	32S	4W	3648
23G11	King Mountain No. 4	33	32S	4W	3049
23G12	King Mountain No. 5	29 & 28	32S	4W	2380
23G13	King Mountain No. 6	20	32S	4W	1820
22F16	North Umpqua	19	26S	6E	4215
22F23	Red Butte No. 1	36	27S	2W	4560
22F24	Red Butte No. 2	30	27S	1W	4000
22F25	Red Butte No. 3	30	27S	1W	3500
22F26	Red Butte No. 4	30	27S	1W	3000
22F27	Red Butte No. 5	20	27S	1W	2500
22F28	Red Butte No. 6	17	27S	1W	2000
22F17	Trap Creek	1	27S	4E	3800

KLAMATH WATERSHEDS (10)

Klamath River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
22G6	Annie Spring	19	31S	6E	6018
22G13P *	Billie Creek Divide	30	36S	5E	5300
21F22	Chemult Alt.	21	27S	8E	4760
22G24 *	Cold Springs Camp	12	35S	5E	6100
20G12a	Crazyman Flat	9	34S	15E	6100
20H2a	Crowder Flat (Cal)	30	47N	11E	5200
22F19	Diamond-Crater Summit	3	29S	6E	5800
21F18	Diamond Lake Jct. (97)	1	29S	7E	4600
21G6a	Dog Hollow	1	40S	14E	4900
20G14a	Finley Corrals	11	36S	16E	6000
22G12 *	Fourmile Lake	9	36S	5E	6000
21G4P	Gerber	12	39S	13E	4850
22G26	Howard Prairie	32	38S	4E	4500
22G16	Hyatt Prairie Reservoir	15	39S	3E	4900
22G15	Lake of the Woods	11	37S	5E	4960
2265	Park Headquarters	8	31S	6E	6550
20G6MP	Quartz Mountain	2	38S	16E	5320
22G11	Seven Lakes No. 2	26	33S	5E	6200
22G33	Seven Mile	20	33S	6E	5725
20H1a	State Line (Cal)	21	48N	11E	5750
20G9AP	Strawberry	4	40S	16E	5760
20G2AP *	Summer Rim	23	33S	16E	7100
20G13a	Sycan Flat	25	31S	14E	5500
21G3P *	Taylor Butte	21	33S	11E	5100

Pacific Power and Light Company's Snow Stations

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
3	Chiloquin (PP&L)	34	34S	7E	4187
4	Crystal (PP&L)	26	34S	6E	4200
5	Fort Klamath (PP&L)	22	33S	7 E	4150
8	Harriman Ridge (PP&L)	3	36S	6E	4200
6	Kirk (PP&L)	1	33S	7E	4533

LAKE COUNTY, GOOSE LAKE WATERSHEDS (11)

Goose Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
20G15a	Bear Flat Meadow	27	36S	19E	5900
20G8MP	Camas Creek	5	39S	21E	5720
20G11A	Cox Flat	16	37S	18E	5750
20H2a	Crowder Flat (Cal)	30	47N	11E	5200
20H3a	Dismal Swamp (Cal)	31	48N	16E	7200
20G17a	Patton Meadow	28	38S	18E	6800
20G6MP	Quartz Mountain	2	38S	16E	5320
20G19a	Rogger Meadow	21	39S	21E	6500
20H1a	State Line (Cal)	21	48N	11E	5750
20G9AP	Strawberry	4	40S	16E	5760

Abert Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
20G15a	Bear Flat Meadow	27	36S	19E	5900
20G18ap	Colvin Creek	12	36S	21E	6550
20G11A	Cox Flat	16	37S	18E	5750
20G14a	Finley Corrals	11	36S	16E	6000
20G6MP	Quartz Mountain	2	38S	16E	5320
20G10a	Sherman Valley	15	37S	21E	6600

Summer Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
20G2AP	Summer Rim	23	33S	16E	7100

Silver Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
21F2P	Silver Creek	25 & 26	29S	13E	4900
20G13a	Sycan Flat	25	31S	14E	5500

Warner Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
20G8MP	Camas Creek	5	39S	21E	5720
20H3a	Dismal Swamp (Cal)	31	48N	16E	7200
19G1a	Hart Mountain	1	36S	25E	6350
20G10a	Sherman Valley	15	37S	21E	6600

Guano Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
19H1	Bald Mountain (Nev)	17	45N	21E	6720
19G1a	Hart Mountain	1	36S	25E	6350
19H4a	Little Bally Mt. (Nev)	8	45N	19E	6600

HARNEY BASIN WATERSHED (12)

Silvies River - Silver Creek

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18F7a	Call Meadows	29	20S	33E	5340
19F2	Delintment Lake	28	19S	26E	5600
19F3	Emigrant Butte	14	21S	27E	5000
18F3P	Idlewild Camp	27	20S	31E	5200
19E9P	Izee Summit	28	16S	29E	5293
18F1	Rock Spring	23	18S	32E	5100
19F1 *	Snow Mountain	1	19S	26E	6220
19E7M	Starr Ridge	20	15S	31E	5150
18F4P	Stinking Water	34	21S	34E	4800

Donner Und Blitzen River

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18F6a	Buck Pasture	28	29S	35E	5300
18G2PA *	Fish Creek	4	33S	33E	7900
19G1a	Hart Mountain	1	36S	25E	6350
18G1PA *	Silvies	35	32S	33E	6900
18G7a	"Y" Lake	31	35 S	32 E	6600

Trout and Whitehorse Creeks

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18G6a	Oenio Creek	14	41S	34E	6000
18H1	Disaster Peak (Nev)	8	47N	34E	6500
17G5a	Oregon Canyon	8	40S	40E	6950
18G5a	Trout Creek	10	41S	38E	7800

Harney Lake

NUMBER	NAME	LOCATION SEC	TWP	RGE	ELEV
18G8a	Buckskin Lake	25	29S	30E	5200

Map and Index to OREGON SNOW COURSES

The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE
- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon Department Of Water Resources
- Soil and Water Conservation Districts of Oregon

COUNTY
- Douglas County Water Resources Survey

FEDERAL
- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Revlamation
  - Fish and Wildlife Service
  - Geological Survey
- Department of National Defense
  - Corps of Army Engineers

PUBLIC UTILITIES
- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific National

MUNICIPALITIES
- City of Baker
- City of La Grande
- City of Portland
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS
- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale - Oregon Irrigation District
- Warmsprings Irrigation District

PRIVATE ORGANIZATIONS
- The Crag Rats, Hood River, Oregon

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